

Ontario Aerospace Industry
CAPABILITIES
DIRECTORY
2009-10



Where Innovation Soars!

Canada's contribution to the aerospace industry has been leading-edge and iconic -- and its strength is recognized world-wide. From the de Havilland Beaver to Bombardier's Canadair Regional Jets, from Pratt & Whitney Canada's PT6 to the world's largest aircraft landing gear test facility in Oakville, Ontario, and CAE, the premier supplier of aviation simulation and training solutions, the industry achieved its success by developing capabilities in specific market niches, resulting in world product mandates and world leading products.

The future growth and success of Canada's and Ontario's aerospace industry rests with its ability to offer innovative solutions as original equipment manufacturers (OEMs) configure their next generation major aircraft platforms. The Boeing 737 and Airbus A320 replacement programs will seek to provide customers with game-changing products. The Airbus A350 program, Embraer's business jets, and Bombardier's proposed CSeries aircraft and future business and regional jets will also provide substantial, long-term business opportunities for suppliers. The Canadian and Ontario aerospace industry is positioning itself to play a significant role in these future platforms.

Through aggressive, collaborative technology development programs, Canadian and Ontario aerospace firms are working to generate new technologies and processes at an ever faster pace, including:

- a greater use of lightweight materials,
- modelling and simulation,
- more fuel-efficient engines with lower emissions and less noise,
- the move from hydraulic to all-electric aircraft, and more

These new technologies and processes will deliver innovative products and services that will make tomorrow's aircraft more efficient and more comfortable, with reduced environmental foot print, and ever more reliable.

Rod Jones
Executive Director

OAC 
ONTARIO AEROSPACE COUNCIL



2Source Manufacturing Inc.

www.2source.com

2Source Manufacturing Inc. specializes in providing precision aircraft bushings worldwide, offering short lead times and competitive pricing through innovative processes and focus only on aircraft bushings.

A-Line/Muru Aerospace Machining

www.a-linetool.com

A-Line/Muru is a manufacturer of high precision components and tooling, servicing aerospace, defence and nuclear industries with innovative machining solutions and around the clock support.

Advanced Processing Inc, Div of South West Industries

www.advancedprocessing.com

API provides full service special processing and NDT for aluminum components up to 6 feet long. Cadmium plating, passivation, and shot peen capabilities are also in house processes.

Aero-Safe Devices Inc.

www.aerosafe.ca

Aero-Safe Devices provides complete manufacturing solutions – Supply Chain Management, Assembly & Integration of Aerospace & Defence components i.e. Landing Gear Assemblies, Hydraulic/Pneumatic/ Mechanical Actuators.

AeroTek Manufacturing Ltd.

www.aerotekmfg.com

AeroTek is the preferred supplier of environmentally friendly and traditional aerospace and metal coatings, providing a one-stop shop for processing services including anodizing, electroplating and paint, all to military and aerospace specifications.

Airborne Systems Canada Limited

www.airbornesystems-na.com

Airborne Systems Canada is actively engaged in the design, development, manufacture and export of military defense products; aerospace safety, rescue and life support equipment.

ALT Software Inc.

www.altsoftware.com

Deployed in the majority of cockpit displays flying today, ALT Software provides safety-critical DO-178B (Level A) OpenGL 2D/3D graphics drivers and software development services.

Applied Precision Inc.

www.appliedprecision.ca

Applied Precision Inc. is an advanced manufacturing technology company based in Mississauga, Ontario. A Leader since 1999, providing 3D digitizing systems and services for aerospace manufacturing and MRO applications.

Arnprior Aerospace Inc.

www.arnprioraerospace.com

Arnprior Aerospace provides complex multi-commodity structural assemblies and integrated electrical/avionics enclosures and racking for commercial and defense aircraft applications.

ASA Alloys Inc. div of CSM ULC

www.asaalloys.com

ASA Alloys is a Stocking Aerospace distributor specializing in cut to size programs supplying Aircraft Aluminum, Aircraft Landing Gear Alloys, Nickel Alloys and Titanium Alloys.

Atlantis Systems International

www.AtlantisSI.com

Atlantis is a training systems integrator with 30 years experience supplying simulation-based aircrew, maintenance, and tactical training systems for the international military and commercial markets.

B&R Machine Company Limited

www.br-machine.com

B&R Machine is a modern, ISO 9001:2000 AS9100 Certified CNC Machining, Assembly, Repair & Overhaul facility applying scientific techniques to the manufacturing process.

Ben Machine Products Co. Inc.

www.benmachine.com

Ben Machine Products is a full service CNC precision machining, sheet metal fabrication, finishing and assembly facility supporting the military, aerospace, high-tech commercial and telecommunications industries.

Böhler-Uddeholm Canada

www.bucanada.ca

Bohler-Uddeholm is a manufacturer and distributor of quality specialty steel. Located across Canada, we provide services including saw cutting, machining, grinding, heat treatment, and technical support.



Bombardier Commercial Aircraft

www.aero.bombardier.com

Bombardier is a world leader in the design and manufacture of innovative aviation products for the regional, business and amphibious aircraft markets. Activities at Bombardier's Toronto site include final assembly of its QSeries turboprops and Global business aircraft.

BreconRidge Corporation

www.breconridge.com

BreconRidge is a world class provider of innovative design engineering and manufacturing services for electronic products.

Brotech Industries

www.brotechindustries.com

Brotech Industries is a supplier of high precision CNC machined components and assemblies for the aerospace industry

CableTest Systems Inc.

www.CableTest.com

CableTest Systems Inc, has been manufacturing production-friendly electrical interconnect test equipment for over 20 years. CableTest is active in several cutting-edge programs including the Joint Strike Fighter, Canadarm, Airbus A380 and Boeing 787.

Cam-Tag Industries Inc.

www.camtag.com

Cam-Tag Industries Inc. has established itself as a preferred supplier of machined components for a number of reasons. The quality and precision tolerance of our products is a major advantage. We continually demonstrate an undisputed level of excellence and workmanship which goes beyond the norm.

Carpenter Technology Canada Ltd.

www.cartech.com

Carpenter Technology Corporation is a leading international manufacturer of specialty alloys and engineered products that are used in a wide variety of critical aerospace applications.

CaseBank Technologies Inc.

www.casebank.com

CaseBank supplies Guided Diagnostic Knowledge Management (maintenance) decision support systems. We can provide any level of support from software and training for companies who wish to build their own systems to complete turn-key systems managed and distributed by CaseBank.

CDI Professional Services, Ltd.

www.cdicorp.com

CDI is a global provider of engineering outsourcing & specialty staffing in the aerospace industry. Our, proven processes, design and analysis experience deliver the results you need.

CEEL Limited

www.ceellimited.com

CEEL Limited provides chrome & sulphamate nickel plating, HVOF thermal spray and precision grinding. CEEL is NADCAP accredited and has earned many aerospace process approvals.

Celestica Inc.

www.celestica.com

Celestica offers a full range of design services, manufacturing, and support for high-reliability electronic systems intended for use in demanding aerospace and military environments.

City of Toronto

www.toronto.ca/business

Works directly with companies to ensure their sectors prosper and that they can operate effectively by resolving issues and facilitating site selection and expansions.

Cleeve Technology Inc.

www.cleevetech.com

Cleeve Technology Incorporated offers electrical and mechanical system solutions. Cleeve Technology is a high-tech, innovative Canadian company that has developed a substantial profile in the electrical interconnect sector of the aerospace and military industry worldwide.

COM DEV International

www.comdev.ca

COM DEV is one of the largest independent suppliers of electrical, radio-frequency (RF) and optical subsystem for satellites and other spacecraft used for commercial communications, earth remote sensing, space science, astronomy and defence applications. COM DEV equipment has flown onboard more than 700 satellites and spacecraft to date.

Comtek Advanced Structures

www.comtekadvanced.com

Comtek specializes in advanced composites applications for the international aerospace & defense market.



Curtiss-Wright Controls EM Technologies

www.cwcontrols.com

Curtiss-Wright Controls, Inc. - EM Technologies (Novatronics Inc.) designs and manufactures custom precision electro-mechanical components for the sensing and actuation of rotary and linear mechanisms.

Curtiss-Wright Indal Technologies

www.indaltech.com

Indal Technologies is a leader in the design and development of ship-borne helicopter handling systems, cable handling systems, specialized structures and other systems for world navies.

Cyclone Manufacturing Inc.

www.cyclonemfg.com

Cyclone Manufacturing is a full service provider in the Aerospace Industry. Our Core Technologies are Machining, Shot peening, Shot peen forming, Processing, (Anodizing, painting, NDT) Assembly and kitting. We work with all metals and materials with no exclusions.

DECA Aviation

www.deca-aviation.com

DECA Aviation is a world class aviation services company with a foundation built on its diverse engineering, program and platform experience. Supported by a demonstrated track record in the areas of engineering services, aircraft certification, aircraft modification, interiors and integrated kit supply.

Diamond Aircraft

www.diamondair.com

Diamond Aircraft is currently the third largest manufacturer of general aviation aircraft and is rapidly increasing its market share. With a complete piston lineup including the DA20, DA40, and DA42, popular with flight training schools and personal/recreational pilots alike, Diamond is currently developing a light personal jet aircraft, the D-JET.

Dishon Limited

www.dishoncnc.com

In business for over 25 years, Dishon Limited, a leading parts manufacturer, is a full service ISO9001, Controlled Goods Certified, ITAR Compliant, CNC plant. Our equipment includes 27 CNC machines with both sink and wire EDM.

E.T.M. Industries Inc.

www.etmindustries.on.ca

Precision Vertical & Horizontal CNC Machining; Fixture, Tool & Mold Making; Plastic Injection Molding; Metal & Plastic Component Assembly. AS9100/ISO 9001 Registered.

Electronic Craftsmen

www.ecraftsmen.com

Electronic Craftsmen Corporation designs and manufactures high reliability custom magnetic components (transformers and inductors). Especially strong in providing full design support for complex parts.

EMS SATCOM

www.emssatcom.com

EMS SATCOM specializes in the design and development of satellite-based terminals and antennas for the aeronautical, ground-mobile and emergency management markets.

Esterline CMC Electronics

www.cmcelectronics.ca

Esterline CMC Electronics specializes in the design, development, production and support of innovative avionics and cockpit systems integration solutions.

Eurocopter Canada Limited

www.eurocopter.ca

Eurocopter Canada is the leading helicopter manufacturer in Canada and offers aircraft completions and sales, manufacturing and services including R&O, Retrofit and training.

Exactatherm

www.exactatherm.com

Exactatherm Limited, located in Mississauga, Ontario offers Vacuum Heat Treating, both oil and high pressure gas quench, as well as Plasma Ion Nitriding and P.V.D. coating.

Exova

www.exova.ca

Exova provides material characterisation, testing & component performance evaluation to the Aerospace Industry. Specifically: fatigue, fracture toughness and failure analysis.



Field Aviation Company Inc.

www.fieldav.com

Field Aviation is a world leader in the design, engineering, integration, and delivery of aircraft and systems for use in special mission roles.

Firan Technology Group Corporation

www.ftgcorp.com

FTG Corporation has three operating divisions, two of which manufacture complex printed circuit boards. FTG Aerospace manufactures cockpit bezels/keyboards and control panels for aerospace applications.

GasTOPS Ltd.

www.gastops.com

GasTOPS advanced condition assessment products are used in aerospace applications worldwide to boost performance, improve reliability and optimize the readiness of mission critical equipment.

Gladstone Aerospace Consulting

www.gladstoneac.com

Gladstone Aerospace Consulting (GAC) makes vision happen by providing consulting services that bridge the gap between potential and delivering a capability. GAC provides services in the following areas: (1) Flight Test and Certification; (2) Training Solutions; (3) Aviation Human Factors; and (4) Business Development services.

Goodrich Aerospace Canada Ltd.

www.goodrich.com

The Goodrich Landing Gear Division in Canada has total capabilities for the design, development, manufacture and support of complete landing gear and flight control actuation systems.

Goodrich Landing Gear Services

www.goodrich.com

Goodrich Landing Gear Services in Canada is a full, state-of-the-art facility established to repair and overhaul all commercial and military aircraft landing gear.

Héroux Devtek Inc.

www.herouxdevtek.com

Héroux Devtek specializes in the design, development, manufacturing and repair of aerospace products. It provides landing gear and aerostructure products, commercial and military.

HISS, Inc.

www.hiss.ca

HISS, Inc. is an international surveillance systems integrator and installer with a focus on applications in the airborne, ground, maritime and coastal environments.

Honeywell

www.honeywell.com

In Canada, Honeywell has served the aerospace marketplace for more than five decades. Today's 330,000 square foot facility, located in Mississauga, Ontario, is the home of Honeywell Canada headquarters and the Aerospace Electronic Environmental Controls and Electric Power Distribution product lines.

Hypernetics – A Div. of Plaintree Systems Inc.

www.hyperneticsltd.com

Hypernetics designs & manufactures electromagnetic transducers for aircraft anti-skid systems & electromagnetic, electromechanical components for cockpit instrumentation for commercial & military aircraft & rotorcraft.

InspectionAir Gauge Ltd.

www.inspectionair.com

CET Group of Companies can provide turn key solutions for all your engineering and tooling needs, from 3-D digitizing and reverse engineering to design and build of complex inspection systems and stamping dies.

Interfast Inc.

www.interfast.ca

Interfast is a full line stocking distributor of aircraft and specialty fasteners and installation tooling for which we provide engineering product support and customized inventory management services.

International Custom Products Inc.

www.icpinc.com

ICP is a manufacturer and designer of custom contract engineered stitched products including parachutes for UAVs, illuminating flares, aircraft deployed ram air decelerators, and sonobuoys.

ITS Electronics Inc.

www.itselectronics.com

ITS Electronics Inc. is a world leader in production of advanced microwave and millimeter wave Radios, Solid State Power Amplifiers and Frequency Converters.



KK Precision Inc.

www.KKprecision.com

Established in 1963, KK Precision is a leading engineering and manufacturing company providing critical Gas Turbine components to OEM's specialized in complex casings up to 160" in diameter.

Koss Aerospace

www.kossAerospace.com

Koss Aerospace has distinguished itself as a premier supplier of complex airframe components and assemblies, having over 30 years of experience serving commercial and defense customer's world wide.

L-3 Electronic Systems

www.l-3com.com/es/

L-3 ES designs, integrates, manufactures and supports a broad range of products and services for the aerospace industry, military agencies and governments around the world.

L-3 Wescam

www.Wescam.com

L-3 WESCAM's MX-Series of EO/IR imaging turrets provide stable, long-range detection and identification. Included: 1) Family of 1080p True HD imaging turrets 2) Family of turrets featuring integrated MCU's – which leads to significant installed weight savings.

Lean Design Canada, Inc

www.leandesign.com

LDC/Munro & Associates is a world recognized Project Management, Benchmarking, and Consulting company in Lean Manufacturing, Design Profit®, and our patented Lean Design® methodology, saving companies billions over 20 years.

Lewis Companies Inc.

www.lewiscos.com

Aviation & Aerospace professional contacts, complemented by in-depth market research, creates success in recruiting senior management & senior specialised technical talent in this sector globally.

LHM Technologies, Inc.

www.lhmtech.com

LHM manufactures and assembles precision machined components for the aerospace and defence industries including aircraft, landing gear and satellites. Fully AS9100 compliant.

Liburdi Turbine Services Inc.

www.Liburdi.com

Liburdi provides Engineering support services for component repairs including metallurgical assessment of damaged components for performance evaluation. Liburdi offers coating and welding services for engine components and manufactures welding equipment for engine repairs.

Luxell Technologies Inc.

www.luxell.com

LUXELL is an innovative solutions provider of Ruggedized Flat Panel Displays for major Aerospace and Defense systems. Luxell has complete engineering, manufacturing and testing capabilities with growing technology portfolio to satisfy end-user requirements and specifications

Lynch Dynamics Inc.

www.lynchdynamics.com

Lynch Dynamics is a member of the Lynch Group of Companies established in 1987. We are a group of certified engineers, designers and manufacturers dedicated to producing high quality precision machined components and motion controls.

Magellan Aerospace Corporation

www.magellan.aero

Magellan Aerospace (TSX: MAL) is a major global aerospace industry supplier. Magellan designs, and produces aeroengine and aerostructure assemblies and components, and advanced products for military and space markets.

Messier-Dowty

www.messier-dowty.com

Messier-Dowty, the world leader in landing gear, designs, develops, tests, manufactures and supports landing gear and landing gear systems for airframers around the globe. Major customers include Airbus, ATR, Boeing, Bombardier, Dassault, Eurocopter, Hawker Beechcraft and Sukhoi.

MMIST Inc.

www.mmist.ca

MMIST is a world leader in the development, production and support of precision aerial delivery systems. The SnowGoose UAV and Sherpa - GPS Guided Delivery System are cost-effective, proven and mature systems, ideal for wide ranging military and civil/commercial applications.



NRC Aerospace

www.NRCaerospace.gc.ca

Part of the National Research Council Canada, NRC Aerospace is a leader in aerospace innovation in Canada, conducting research in aerodynamics, aerospace manufacturing, airborne sensing, airborne simulation, life assessment and extension, avionics and flight mechanics, gas turbine aerodynamics and combustion, icing, and structures and materials.

Navhouse Corporation

www.navhouse.com

Repair and Overhaul, certification and parts distribution of legacy and mature Inertial Navigation Systems and Components. Transport Canada, FAA and EASA Approved. ISO 9001:2000 and SAE 9100B certified.

Navionex Corporation

www.navionex.com

Navionex Corporation of Toronto, is a designer/manufacture of MEMS-based Attitude Heading Reference Systems (AHRS) and related inertial navigation products. Our standard product line includes the "Pico" AHRS, "Nano" AHRS, and "GO" AHRS, but we specialize in customized application-specific solutions.

Neptec Design Group

www.neptec.com

Neptec specializes in advanced mission critical space, defence and industrial systems and applications. Neptec provides innovative solutions to today's complex challenges.

Noranco Inc

www.noranco.com

Noranco is a world class provider of manufacturing solutions to the commercial and military aerospace sectors, including precision machining, sheet metal fabrication, assembly, testing and supply chain management.

Northstar Aerospace

www.nsaero.com

R&O and manufactured products include flight critical gears, gearboxes, rotor heads, rotor shafts and dynamic components for helicopters and gearboxes for gas turbine engines.

Patlon Aircraft & Industries Limited

www.patlon.com

Patlon is an engineering sales organization providing added value with solid technical capability to market products within the Aerospace Industry with supporting capabilities to Repair & Overhaul GSE equipment; your experts in ground power.

PPG Aerospace

www.ppgaerospace.com

PPG Aerospace - PRC-DeSoto is the leading global producer and distributor of aerospace coatings, sealants, and packaging and application systems. PPG Aerospace Transparencies is the world's largest supplier of aircraft windshields, windows and canopies.

Pratt & Whitney Canada

www.pwc.ca

Pratt & Whitney Canada is a world leader in the design, manufacture and service of aircraft engines powering business, general aviation and regional aircraft and helicopters. The company also manufactures auxiliary power units and industrial gas turbines.

Reil Industrial Enterprises Ltd.

www.reilindustrial.com

Reil Industrial Enterprises is a well-established and financially sound aerospace component manufacturer. Founded in 1965, the company focuses primarily on the space industry along with the airframe, avionics sub-sectors of the commercial and military aircraft industry.

Ryerson University Department of Aerospace Engineering

www.ryerson.ca/aerospace

Department of Aerospace Engineering (DAE) at Ryerson is one of only two programs in Canada, accredited by the Canadian Accreditation Board, that grants B.Eng. in Aerospace Engineering. The DAE hosts the only industry-centred project-based learning institute (The Ryerson Institute for Aerospace Design and Innovation - RIADI) in Ontario. In addition, it also offers Master's and Ph.D. degrees in Aerospace Engineering."



Samuel Specialty Metals

www.samuel.com

Samuel Specialty Metals provides the Aerospace industry with a reliable source for virtually all aluminum needs...in the complete range of products to most Commercial and Military specifications.

Shimco North America Inc.

www.shimco.net

Shimco is the sole Canadian manufacturer of metallic laminated sheets used for the detailing of laminated shims. Available in aluminum, stainless, titanium and brass and produced to AMS-DTL-22499.

Strite Industries Limited

www.strite.com

Strite manufactures a wide range of small to medium size ultra-precision components for the Aerospace industry, in a state of the art facility.

TDM Technical Services

www.tdm.ca

TDM provides aerospace engineering resources on an as needed contract basis giving your organization the flexibility and technological expertise that are so necessary to stay competitive.

Thales Canada

www.thales-systems.ca

One of Canada's leading military systems engineering/integration companies, specializing in Command, Control and Communications (C3) systems for army, air force, naval, and security applications

Thermodyne Engineering Ltd.

www.thermodyne.ca

Consulting Engineering: Finite Element Analysis, Vibration Shock, Temperature, etc. Qualification and Certification Testing: to RTCA/DO-160, MIL-STD-810 & CEI/IEC.

TrueNorth Avionics Inc.

www.TrueNorthAvionics.com

TrueNorth Avionics is an Original Equipment Manufacturer of advanced cabin communications and networking solutions.

Tulmar Safety Systems

www.tulmar.com

R&O and manufactured products include: lifejackets, life rafts, survival equipment and seat restraints. Tulmar designs and manufactures training products including slide/rafts, lifejackets and smoke-hoods for cabin evacuation training.

Unison Engine Components – Orillia

www.unisonenginecomponents.com

Unison Engine Components – Orillia (UEC-O) is the largest Canadian supplier of assemblies, kits, components, and supply chain management to the aerospace engine sector.

VAC AERO International Inc.

www.vacaero.com

Metallurgical services include; vacuum heat treating/brazing, plasma/HVOF spray coatings, inorganic paint/pack coatings. Manufacturers of a range of high temperature gas quench vacuum furnace systems and controls.

Valiant Corporation

www.valiantcorp.com

Valiant has been building equipment for the aerospace industry for over 35 years. We specialize in forming tool and molds, aero-engine tooling, and aerospace assembly and specialty equipment.

Virtek Vision International Inc.

www.virtek.ca

Virtek, a Gerber Technology Company, is a leading provider of precision laser-based templating and inspection offering the widest range of solutions for composite assembly productivity improvement. With proven products that enable increased production at lower costs while improving quality, customers in the aerospace industry rely on Virtek.

Weber Manufacturing Technologies Inc.

www.webermfg.ca

Weber is a world-class tooling and machined component supplier, and operates a nickel vapour deposition facility for nickel shells and components. Experienced in many plastic processes, mould materials, out-of-autoclave tooling applications. Weber has ISO 9001:2000, AS 9100 and CCGP registrations.

Windsor Essex Development Commission

www.choosewindsorsex.com

We provide the following: promote the region, maintain an attractive business and economic environment, attract new business, aid diversification and growth of existing business.

The Ontario aerospace industry has a proud history of innovation and technology leadership, enhances the well-being of Ontarians and all Canadians, and is a strong contributor to Ontario's and Canada's economy.

Ontario aerospace companies, supported by strong supplier clusters, have market-leading positions in several market niches, including:

Regional Turboprop Aircraft Integration
Business Jet Aircraft Integration
General Aviation Aircraft
Helicopters
Unmanned Aerial Vehicles & Systems
Small and Medium Turbine Engines
Landing Gear Systems
Environmental Control Systems
Electric Power Systems
Flight Control Systems
Integrated Avionics Systems
Avionics Displays
Aircraft Structural Assemblies
Stabilized Airborne Imaging Systems
Simulation / Training Systems
Electro-mechanical Products
Space Robotics Systems
Space Communications Systems

Generating revenues of approximately US\$ 5 billion of which 80% is exported, the Ontario Aerospace industry is made up of more than 350 firms employing over 23,000 people, many of whom are highly qualified engineers, technicians and scientists.

The Ontario aerospace industry works together, through the Ontario Aerospace Council (OAC), to enhance its reality and recognition as a leader in global aerospace markets and to build stronger capabilities in the industry to assure growth and prosperity.

Ontario Aerospace Council

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OAC 
ONTARIO AEROSPACE COUNCIL